

AMENDMENTS TO THE CLAIMS

Listing of Claims:

1. (Currently amended) A dental implant system, comprising:
an dental implant including a body portion and an abutment portion, the implant body portion located at a distal end and configured to lie at least partially below a crest of a patient's jawbone, the abutment portion located at a proximate end of the implant and configured to lie at least partially above the crest of the patient's jawbone, the abutment portion comprising a flared portion, a shoulder portion and a final restoration portion, the shoulder portion lying between the flared portion and the final restoration portion, the abutment portion including a bone apposition surface having a top edge with a scalloped shape; and
a healing cap including a body portion having a proximal and a distal end, the body portion defining an inner cavity which is sized and adapted so that the healing cap fits over the final restoration portion, the healing cap further including a tissue retention flange at the distal end that extends below the shoulder portion when the healing cap is coupled to the abutment portion.
2. (Original) The dental implant system of Claim 1, wherein the body portion and the abutment portion of the implant are permanently attached to each other.
3. (Original) The dental implant system of Claim 1, wherein the body portion and the abutment portion of the implant are machined from a single piece of material.
4. (Original) The dental implant system of Claim 1, wherein the tissue retraction flange also extends away from the flared portion.
5. (Original) The dental implant system of Claim 1, wherein a gap is formed between the tissue retraction flange and the flared portion.
6. (Original) The dental implant system of Claim 1, wherein the body portion of the healing cap includes a base portion that is configured to rest at least partially on the shoulder portion of the abutment portion.
7. (Original) The dental implant system of Claim 1, wherein the body portion includes a bone apposition surface.

8. **(Original)** The dental implant system of Claim 1, wherein the healing cap is white.

9. **(Original)** The dental implant system of Claim 1, wherein the healing cap has a color that is substantially the same a natural tooth.

10. **(Original)** The dental implant system of Claim 1, wherein the abutment portion and the healing cap have round cross-sections.

11. **(Original)** The dental implant system of Claim 1, wherein the abutment portion and the healing cap have non-round cross-sections.

12. **(Original)** The dental implant system of Claim 1, in combination with an impression cap for taking dental impressions in a patient's mouth, the impression cap comprising a distal end that includes a top surface, a proximal end that defines an opening, and an inner surface that defines an internal cavity, the proximal end of the impression cap configured to engage the shoulder portion of the dental implant, the impression cap further comprising an injection port configured to receive a tip of an injection syringe for injecting impression material into the inner cavity and a plurality vent holes configured to allow air and excess impression material to escape from the inner cavity.

13. **(Original)** The dental implant system of Claim 12, wherein the proximal end of the impression cap is configured to engage the shoulder of the abutment portion in a snap fit.

14. **(Original)** The dental implant system of Claim 12, wherein the proximal end of the impression cap includes an internal notch formed on the inner surface, the proximal notch sized and dimensioned so as to engage the corresponding shoulder of the prosthetic abutment in a snap fit.

15. **(Original)** The dental implant system of Claim 12, further comprising one or more embedment features for facilitating the gripping and retention of the impression cap within impression material.

16. **(Original)** The dental implant system of Claim 15, wherein the one or more embedment features comprises a shelf, which defines an interference surface that lies generally traverse to a longitudinal axis of the impression cap.

17. **(Original)** The dental implant system of Claim 12, wherein the vent holes comprise three sets of three vent holes that are arranged vertically, each set of vent holes being spaced approximately 120 degrees apart around the perimeter of the impression cap.

18. **(Original)** The dental implant system of Claim 1, in combination with a coping for creating a final restoration, the coping comprising a body portion having a proximal end, a distal end and an inner surface that defines an internal cavity and at least one standoff that extends from the inner surface towards a center of the internal cavity.

19. **(Original)** The dental implant system of Claim 18, wherein the at least one standoff extends at least about 25 microns from the inner surface.

20. **(Original)** The dental implant system of Claim 19, wherein the at least one standoff extends less than about 50 microns from the inner surface.

21. **(Original)** The dental implant system of Claim 18, wherein the coping is made of a material that can be melted and removed from a mold during an investment casting process.

22. **(Original)** The dental implant system of Claim 21, wherein the coping is made of plastic.

23. **(Original)** The dental implant system of Claim 22, wherein the coping is made from a material that is suitable for forming a portion of the final restoration.

24. **(Original)** The dental implant system of Claim 23, wherein the coping is made of gold.

25. **(Original)** The dental implant system of Claim 23, wherein the coping is made of a ceramic material.

26. **(Original)** The dental implant system of Claim 18, wherein the at least one standoff has a tapered shape.

27. **(Original)** The dental implant system of Claim 18, further comprising a flanged region that configured to rest upon a shoulder of a final abutment.

28. **(Currently amended)** A method for installing a prosthetic tooth, comprising the steps of:

inserting a distal end of a body portion of a single stage dental implant having a body portion and an abutment portion into a patient's jawbone during a first stage surgery, the abutment portion having a bone apposition surface having a top edge that

closely approximates the shape of the naturally occurring contours of a patient's bone-tissue morphology;

aligning the top edge of the bone apposition surface with the contours of the patient's bone-tissue morphology;

coupling a healing cap to an abutment portion of the combination, during first stage surgery, such that a tissue retraction flange of the healing cap extends below a shoulder portion of the abutment portion,

removing the healing cap from the abutment portion during a second stage surgery,

taking an impression of the combination during the second stage surgery after the healing cap has been removed from the abutment portion.

29. **(Original)** A method as in Claim 28, wherein the step of coupling a healing cap to an abutment portion of the combination, further includes using a healing cap screw to couple the healing cap to the abutment portion.

30. **(Original)** A method as in Claim 28, further comprising
providing an impression cap with an injection port and a plurality of vent holes;
positioning the impression cap onto the abutment portion of the implant; and
injecting a first impression material into the impression cap through the injection port until the first impression material is extruded through at least one of the vent holes.

31. **(Original)** A method as in Claim 30, wherein the step of positioning the impression cap onto the abutment portion includes snapping the impression cap onto the shoulder of the abutment portion.

32. **(Original)** A method as in Claim 30, further including the steps of taking an impression of the patient's mouth by placing an impression tray filled with a second impression material over the impression cap and removing the impression tray and the impression cap from the patient's mouth.

33. **(Original)** A method as in Claim 30, further including modifying the shape of the abutment portion.

34. (Original) A method as in Claim 30, wherein the step of injecting the first impression material into the impression cap includes inserting a tip of a syringe filled with the first impression material into the injection port of the impression cap.

35. (Original) A method as in Claim 28, further comprising:

providing a coping having a body portion that comprises a proximal end, a distal end and an inner surface that defines an internal cavity and at least one standoff that extends from the inner surface towards a center of the internal cavity;

providing an analogue of the abutment portion of the dental implant,

placing the coping over the analogue;

applying a material suitable for investment casting to an outer surface of the coping;

encasing the coping and the material suitable for investment casting in an investment material;

melting the coping and the material suitable for investment casting;

removing the coping and the material suitable for investment casting from the investment material; and

filling a cavity within the investment material with a material suitable for forming a part of a final restoration.